



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/922,429	08/02/2001	Michael D. Wright	2105P	7430

7590 07/28/2005

SAWYER LAW GROUP LLP  
P.O. Box 51418  
Palo Alto, CA 94303

EXAMINER

NGUYEN, MINH DIEU T

ART UNIT PAPER NUMBER

2137

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/922,429

Applicant(s)

WRIGHT ET AL.

Examiner

Minh Dieu Nguyen

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on August 2, 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 25-36 is/are allowed.
- 6) ☒ Claim(s) 1, 5, 13 and 22-24 is/are rejected.
- 7) ☒ Claim(s) 3, 4, 6-12 and 14-21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 8/2/2001.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. Claims 1-36 are pending.

#### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 13 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Faccin et al. (6,879,690) in view of Bergenwall et al. (6,567,664).

As to claim 1, Faccin et al. discloses method and system for delegation of security procedures to a visited domain, a method for roaming in a network environment, the network environment comprising a first bridge device at a first location (Fig. 1, element 10), a second bridge device at a second location (Fig. 1, element 20), and a mobile device (Fig. 1, element 30) which roams from the first location (i.e. home agent) to the second location (i.e. foreign or visited agent) comprising the steps of:

(a) creating a token by the first bridge device, wherein the token comprises an identity of a context associated with the mobile device;

(b) securely providing the token to the mobile device by the first bridge device (i.e. step (a) and (b) equivalent to the registration/subscription step between mobile device and home domain, col. 6, lines 7-17);

(c) securely providing the token to the second bridge device by the mobile device (col. 5, lines 18-23);

However Faccin does not disclose steps (d)-(f).

Bergenwall discloses methods for registering and re-registering mobile nodes with their home network while roaming in a foreign network comprising the steps of:

(d) securely providing the token to the first bridge device by the second bridge device (i.e. foreign agent forwards mobile's registration request to home agent, col. 1, lines 58-60)

(e) determining if the token from the second bridge device is authentic by the first bridge device; and (f) securely providing the context to the second bridge device by the first bridge device, if the token from the second bridge device is authentic (col. 1, line 60 to col. 2, line 4).

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of second bridge device provides token to the first bridge device, the first bridge device authenticates the token from the second bridge device and if the token is authentic, the first bridge device provides context to the second bridge device as Bergenwall teaches in the system of Faccin so as to provide a secure roaming within a network.

As to claim 13, Faccin as modified discloses step (d) of claim 1 further comprising securely providing the token to the first bridge device by the second bridge device through at least one intermediary device (Fig. 2, elements 26, 28).

As to claim 22, see the addressed above claim 1, step (f) and claim 13.

As to claim 23, Bergenwall as modified discloses the context comprises at least one of information on how to return packets from the mobile device to various locations throughout the LAN (col. 1, lines 25-42).

As to claim 24, Bergenwall as modified discloses the identity of the context is a number (col. 3, lines 25-28).

4. Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Faccin et al. (6,879,690) in view of Bergenwall et al. (6,567,664) and further in view of Diffie et al. (Re. 36,946).

As to claim 2, Faccin and Bergenwall do not disclose step (a) further comprises steps (a1) and (a2).

Diffie discloses a method and apparatus for privacy and authentication in wireless networks comprising the steps of:

(a1) creating a first message by the first bridge device, wherein the first message comprises a first random number encrypted using a public key of the mobile device; and

(a2) creating a second message by the first bridge device, wherein the second message comprises a digital signature for the first random number and the identity, wherein the token securely provided to the mobile device by the first bridge device comprises the first message and the second message (col. 8, lines 8-47).

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of creating a first message by the first bridge device, wherein the first message comprises a first random number encrypted using a public key of the mobile device; and creating a second message by the first bridge device, wherein the second message comprises a digital signature for the first random number and the identity, wherein the token securely provided to the mobile device by the first bridge device comprises the first message and the second message as Diffie teaches in the system of Faccin and Bergenwall so as to strengthen data communications between mobile device and first bridge device.

As to claim 5, the examiner takes official notice that storing the first random number of the identity in a storage medium by the first bridge device is well-known in data network communications.

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of storing the random number and identity in the system of Faccin and Bergenwall so as to make easy for authentication/verification.

***Allowable Subject Matter***

5. Claims 25-36 are allowed.

The prior arts of Faccin et al., Bergenwall et al. and Diffie et al. do not disclose the method of claim 25 especially the unique features as claimed in steps (d) to (o).

The dependent claims 26-36 are also allowed for the same reason.

6. Claims 3-4, 6-12 and 14-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu Nguyen whose telephone number is 571-272-3873. The examiner can normally be reached on M-F 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.


Art Unit: 2137

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.



mdn  
7/22/05

Minh Dieu Nguyen  
Examiner  
Art Unit 2137



MATTHEW SMITHERS  
PRIMARY EXAMINER  
Art Unit 2137